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 Terms used **abstract class** **abstract method** **various software**

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1 [Micro patterns in Java code](#)



Joseph (Yossi) Gil, Itay Maman

October 2005

ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05, Volume 40 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(322.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Micro patterns are similar to *design patterns*, except that micro patterns are stand at a lower, closer to the implementation, level of abstraction. Micro patterns are also unique in that they are mechanically recognizable, since each such pattern can be expressed as a formal condition on the structure of a class. This paper presents a catalog of 27 micro-patterns defined on Java classes and interfaces. The catalog captures a wide spectrum of common programming practices, including a partic ...

Keywords: design patterns, implementation patterns, object-oriented programming, program analysis

2 [Static and dynamic analysis of call chains in java](#)



Atanas Rountev, Scott Kagan, Michael Gibas

July 2004

ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '04, Volume 29 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(276.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This work presents a parameterized framework for static and dynamic analysis of call chains in Java components. Such analyses have a wide range of uses in tools for software understanding and testing. We also describe a test coverage tool built with these analyses and the use of the tool on a real-world test suite. Our experiments evaluate the exact precision of several instances of the framework and provide a novel approach for estimating the limits of class analysis technology for computing pr ...

Keywords: call chains, call graph, dynamic analysis, static analysis

3 [Fast detection of communication patterns in distributed executions](#)



Thomas Kunz, Michiel F. H. Seuren

November 1997

Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Slicing object-oriented java programs



Zhenqiang Chen, Baowen Xu

April 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 4

Publisher: ACM Press

Full text available:  pdf(828.91 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents a new approach to represent dependence for object-oriented (OO) Java software. The program dependence graph (PDG) consists of a set of PDGs with tags that are not connected. This new approach distinguishes data members for different objects and represents the effects of polymorphism and dynamic bindings. Based on this model, we introduce the concepts of partial slicing, class slicing and object slicing. In our slicing algorithm, we slice not only statements but also data memb ...

Keywords: class slicing, object slicing, partial slicing, prgram dependence graph

5 Compression of particle data from hierarchical approximate methods



Dow-Yung Yang, Ananth Grama, Vivek Sarin, Naren Ramakrishnan

September 2001 **ACM Transactions on Mathematical Software (TOMS)**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(614.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents an analytical and computational framework for the compression of particle data resulting from hierarchical approximate treecodes such as the *Barnes--Hut* and *Fast Multipole Methods*. Due to approximations introduced by hierarchical methods, various parameters (such as position, velocity, acceleration, potential) associated with a particle can be bounded by distortion radii. Using this distortion radii, we develop storage schemes that guarantee error bounds while ...

Keywords: Astrophysics, Barnes--Hut, Fast Multipole Method, data compression and analysis, materials simulation, molecular dynamics, particle dynamics

6 Software reuse



Charles W. Krueger

June 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.96 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software reuse is the process of creating software systems from existing software rather than building software systems from scratch. This simple yet powerful vision was introduced in 1968. Software reuse has, however, failed to become a standard software engineering practice. In an attempt to understand why, researchers have renewed their interest in software reuse and in the obstacles to implementing it. This paper surveys the different approaches to software reuse found in the ...

Keywords: abstraction, cognitive distance, software reuse

(ISEF): an integrated industrial-strength software engineering framework

Shaye Koenig

November 1988

ACM SIGSOFT Software Engineering Notes , ACM SIGPLAN Notices , Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments SDE 3, Volume 13 , 24 Issue 5 , 2**Publisher:** ACM PressFull text available: [pdf\(1.34 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

ISEF is an environment for programming-in-the-large that integrates disparate software engineering principles, methods and tools into an industrial-strength, automated software development framework. Projects using ISEF have reported increased software quality, improved software manageability and decreased software production costs. This paper presents the basic principles and mechanisms that enable ISEF to achieve environment/process integration as well as integration within the environmen ...

8 Technical correspondence: Dependence analysis for recursive java programs

Baowen Xu, Zhenqiang Chen

December 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 12**Publisher:** ACM PressFull text available: [pdf\(720.16 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dependence analysis is an important approach to analyzing, understanding, testing and maintaining programs. This paper develops a new kind of dependence analysis method for recursive Java programs. In our method, the program dependence graph (PDG) of a Java program consists of a set of PDGs that are not connected. They interact with each other by dependences among parameters. Thus, the inter-function dependence analysis is transformed to intra-function dependence analysis. Based on this model, we ...

Keywords: program dependence graph, program slicing, recursive functions9 A slicing-based approach for locating type errors

F. Tip, T. B. Dinesh

January 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 10 Issue 1**Publisher:** ACM PressFull text available: [pdf\(443.36 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The effectiveness of a type-checking tool strongly depends on the accuracy of the positional information that is associated with type errors. We present an approach where the location associated with an error message e is defined as a slice P_e of the program P being type-checked. We show that this approach yields highly accurate positional information: P_e is a progr ...

Keywords: abstract interpretation, program slicing, semantics-based tool generation, static semantics, type-checking10 Aggregate structure identification and its application to program analysis

G. Ramalingam, John Field, Frank Tip

January 1999 **Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages****Publisher:** ACM PressFull text available: [pdf\(1.92 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11

Frontmatter (TOC, Letters, Election results, Software Reliability Resources!.



Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)

12 The role of experimentation in software engineering: past, current, and future



Victor R. Basili

May 1996 **Proceedings of the 18th international conference on Software engineering**

Publisher: IEEE Computer Society

Full text available: [pdf\(878.62 KB\)](#)

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1 [ET++—an object oriented application framework in C++](#)



Andre Weinand, Erich Gamma, Rudolf Marty

 January 1988 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '88**, Volume 23 Issue 11

Publisher: ACM Press

 Full text available: [pdf\(1.40 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

ET++ is an object-oriented application framework implemented in C++ for a UNIX+ environment and a conventional window system. The architecture of ET++ is based on MacApp and integrates a rich collection of user interface building blocks as well as basic data structures to form a homogeneous and extensible system. The paper describes the graphic model and its underlying abstract window system interface, shows composite objects as a substrate for declarative layout specification of com ...

2 [Micro patterns in Java code](#)



Joseph (Yossi) Gil, Itay Maman

 October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(322.39 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Micro patterns are similar to *design patterns*, except that micro patterns are stand at a lower, closer to the implementation, level of abstraction. Micro patterns are also unique in that they are mechanically recognizable, since each such pattern can be expressed as a formal condition on the structure of a class. This paper presents a catalog of 27 micro-patterns defined on Java classes and interfaces. The catalog captures a wide spectrum of common programming practices, including a partic ...

Keywords: design patterns, implementation patterns, object-oriented programming, program analysis

3 [Java and education: A case for OO -- Java -- in teaching algorithm analysis](#)



Sergio Rajsbaum, Elisa Viso

 June 2003 **Proceedings of the 2nd international conference on Principles and practice of programming in Java PPPJ '03**

Publisher: Computer Science Press, Inc.

 Full text available: [pdf\(76.25 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents an approach to algorithm analysis that benefits from and exploits the

OO characteristics of Java and the organization Java gives to build the inheritance trees of the classes and, finally, the use of interfaces, collections, and iterators. After defining the inheritance structure of a collection of algorithms -- for instance, graph exploration algorithms - and the different levels of abstraction, we design both the verification and measures of complexity for the abstract algo ...

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Using a maze case study to teach: object-oriented programming and design patterns

Chris Nevison, Barbara Wells

January 2004 **Proceedings of the sixth conference on Australian computing education - Volume 30 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(300.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In order to teach object-oriented design and programming in introductory computer science it is imperative to teach objects from the very beginning of the course. The use of interacting objects is motivated by examples with an inherent complexity. We describe a case study based on a maze as an example that provides a complex framework but at the same time admits to simple pieces that students can work with early in an introductory course. This case study can be used throughout the first year not ...

Keywords: algorithms, design patterns, object-oriented programming

6 Work in progress papers: Toward a business-oriented billing framework with JavaBeans™

Lic. Diego A. Dagum

June 2002 **Proceedings of the inaugural conference on the Principles and Practice of programming, 2002 and Proceedings of the second workshop on Intermediate representation engineering for virtual machines, 2002 PPPJ '02/IRE '02**

Publisher: National University of Ireland

Full text available:  [pdf\(181.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This work is a specification for an enterprise framework, to satisfy billing goals with a concrete division of labor among IT specialists and business analysts. It covers three main aspects: a complete business environment, modeled by IT developers with JavaBeans™ Component API: a billing rule editor for business analysts (without technical knowledge): and finally an engine which translates billing rules in "ready-to-be-used" Java classes, to be instanced during billing process. The benefit thi ...

7 Sharing educational resources: The interoperability of learning object repositories and services: standards, implementations and lessons learned

Marek Hatala, Griff Richards, Timmy Eap, Jordan Willms

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Publisher: ACM Press

Full text available:  [pdf\(258.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interoperability is one of the main issues in creating a networked system of repositories. The eduSource project in its holistic approach to building a network of learning object repositories in Canada is implementing an open network for learning services. Its openness is supported by a communication protocol called the eduSource Communications Layer (ECL) which closely implements the IMS Digital Repository Interoperability (DRI) specification and architecture. The ECL in conjunction with connection ...

Keywords: interoperability, learning object repositories


8 Static and dynamic analysis of call chains in java



Atanas Rountev, Scott Kagan, Michael Gibas

July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '04**, Volume 29 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(276.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This work presents a parameterized framework for static and dynamic analysis of call chains in Java components. Such analyses have a wide range of uses in tools for software understanding and testing. We also describe a test coverage tool built with these analyses and the use of the tool on a real-world test suite. Our experiments evaluate the exact precision of several instances of the framework and provide a novel approach for estimating the limits of class analysis technology for computing pr ...

Keywords: call chains, call graph, dynamic analysis, static analysis

9 Information systems: Pedagogical tools for database design, development and use



Dzenan Ridjanovic

June 2003 **Proceedings of the 2nd international conference on Principles and practice of programming in Java PPPJ '03**

Publisher: Computer Science Press, Inc.

Full text available:  [pdf\(163.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

I teach undergraduate and graduate (MBA) courses in information systems. My primary teaching objective is to help students design and develop dynamic web applications. My students are primarily business oriented; therefore I cannot spend too much time on technical details. A database is a very important part of any dynamic web application. It is also its most technical part. To hide the complexity of database technologies, I developed two tools: Magic Models to design a data model and generate a ...

Keywords: code generation, data model, database framework


10 Change impact analysis for object-oriented programs



Barbara G. Ryder, Frank Tip

June 2001 **Proceedings of the 2001 ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering**

Publisher: ACM Press

Full text available:  [pdf\(199.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Small changes can have major and nonlocal effects in object-oriented languages, due to the use of subtyping and dynamic dispatch. This complicates life for maintenance programmers, who need to fix bugs or add enhancements to systems originally written by others. Change impact analysis provides feedback on the semantic impact of a set of program changes. This analysis can be used to determine the regression test drivers that are affected by a set of changes. Moreover, if a t ...

11 Applications of JAVA programming language to database management

Bradley F. Burton, Victor W. Marek

March 1998 **ACM SIGMOD Record**, Volume 27 Issue 1**Publisher:** ACM PressFull text available: [pdf\(258.27 KB\)](#) Additional Information: [full citation](#), [index terms](#)**12 A practical comparison between Java and Ada in implementing a real-time embedded system**

Eric Potratz

December 2003 **ACM SIGAda Ada Letters , Proceedings of the 2003 annual ACM SIGAda international conference on Ada: the engineering of correct and reliable software for real-time & distributed systems using ada and related technologies SigAda '03**, Volume XXIV Issue 1**Publisher:** ACM PressFull text available: [pdf\(259.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents a student's observations from an undergraduate research project that explored using Java to implement the software for a real-time embedded system that was originally implemented in a university-level real-time systems course using Ada 95. It briefly gives an overview of the project, the decision made concerning which Java virtual machine to use, and how that virtual machine performed in the real-time environment. It then goes into detail about the merits and drawbacks of using ...

Keywords: Ada, Java, concurrency, conditional synchronization, drivers, embedded systems, memory management, object-oriented programming, package elaboration, performance, priority inversion, real-time systems, scheduling

13 Persistence as an aspect

Awais Rashid, Ruzanna Chitchyan

March 2003 **Proceedings of the 2nd international conference on Aspect-oriented software development****Publisher:** ACM PressFull text available: [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Persistence - the storage and retrieval of application data from secondary storage media - is often used as a classical example of a crosscutting concern. It is widely assumed that an application can be developed without taking persistence requirements into consideration and a persistence aspect plugged in at a later stage. However, there are no real world examples showing whether persistence can in fact be aspectised and, if so, can this be done in a manner that promotes reuse and is oblivious ...

Keywords: AspectJ, aspect reuse, aspect-oriented programming, persistence, relational database application

14 Creating and evaluating multi-document sentence extract summaries

Jade Goldstein, Vibhu Mittal, Jaime Carbonell, Jamie Callan

November 2000 **Proceedings of the ninth international conference on Information and knowledge management****Publisher:** ACM PressFull text available: [pdf\(186.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15****Techniques for reconfigurable logic applications: Switch-level emulation**



Alireza Ejlali, Ejlali Ghassem Miremadi

June 2003 **Proceedings of the 40th conference on Design automation****Publisher:** ACM PressFull text available: pdf(380.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a method for the fast emulation of switch-level circuits using FPGAs. In this method, logic gates are used to model switch-level circuits without any abstraction. In contrast to the abstraction methods for which transistors are grouped together to form gates, in this method, gates are grouped together to form the switch models of transistors. Unlike the abstraction methods, the method presented in this paper can emulate many important features of switch-level models, such as ...

Keywords: FPGA chips, emulation, gate-level models, switch-level models**16** The SLAM project: debugging system software via static analysis

Thomas Ball, Sriram K. Rajamani

January 2002 **ACM SIGPLAN Notices , Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '02**, Volume 37 Issue 1**Publisher:** ACM PressFull text available: pdf(479.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The goal of the SLAM project is to check whether or not a program obeys "API usage rules" that specify what it means to be a good client of an API. The SLAM toolkit statically analyzes a C program to determine whether or not it violates given usage rules. The toolkit has two unique aspects: it does not require the programmer to annotate the source program (invariants are inferred); it minimizes noise (false error messages) through a process known as "counterexample-driven refin ...

17 Advances in Model-Based Testing (A-MOST 2005): Generating optimal distinguishing sequences with a model checker

Christopher Robinson-Mallett, Peter Liggesmeyer, Tilo Mücke, Ursula Goltz

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the first international workshop on Advances in model-based testing A-MOST '05**, Volume 30 Issue 4**Publisher:** ACM PressFull text available: pdf(504.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents an approach for the automatic generation of shortest Distinguishing Sequences (DS) with the Uppaal model checker. The presented method is applicable to a large number of extended finite state machines and it will find an optimal result, if a DS sequence exists for the considered automaton. Our approach is situated in an integrated testing environment that is used to generate checking sequences. The generation method is based on a DS model, which is derived from the same test ...

Keywords: distinguishing sequence, extended finite state machines, model checking, state identification, test generation, verification**18** A case for test-code generation in model-driven systems

Matthew J. Rutherford, Alexander L. Wolf

September 2003 **Proceedings of the second international conference on Generative programming and component engineering GPCE '03****Publisher:** Springer-Verlag New York, Inc.Full text available: pdf(283.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A primary goal of generative programming and model-driven development is to raise the level of abstraction at which designers and developers interact with the software systems they are building. During initial development, the benefits of abstraction are clear. However, during testing and maintenance, increased distance from the implementation can be a disadvantage. We view test cases and test harnesses as an essential bridge

between the high-level specifications and the implementation. As such, ...

19 The geometrical design of signalised road traffic junctions



Janet E. Williams, Jeff D. Griffiths

December 1987 **Proceedings of the 19th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(698.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Methods are provided, mainly via simulation modelling but also utilizing mathematical analysis, to enable vehicle queue lengths, delays, and saturation flow profiles to be estimated on a flared approach and on a conventional approach to a signalised road traffic junction. The models show that the provision of flared approaches can appreciably increase the vehicular capacity of a junction. Comparisons are made between simulated and observed results. Consideration is also given to the problem ...

20 Designing executable abstractions



Gerard J. Holzmann

March 1998 **Proceedings of the second workshop on Formal methods in software practice**

Publisher: ACM Press

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Keywords: distributed systems, model checking, software verification

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[The Additive Turbulent Decomposition For The.. - Brown, Perry, Shen \(Correct\)](#)

M. Brown, Peter Perry, And Zhongwei Shen **Abstract**. The Additive Turbulent Decomposition (atd) nonlinear Galerkin **methods** AMS subject **classifications**. 35Q30, 76D05, 65M70 1. Introduction. The additive turbulent decomposition (ATD) **method** is a computational scheme for solving the www.ms.uky.edu/~perry/Ftp/atd.ps

[Three-Dimensional Object Recognition Using an.. - Intrator, Gold.. \(1991\) \(Correct\) \(2 citations\)](#)

Institute of Science, Rehovot 76100, Israel **Abstract** A novel **method** for feature extraction has been of objects, with respect to which the input is **classified**. The nature of this representation, however, Science, Rehovot 76100, Israel **Abstract** A novel **method** for feature extraction has been applied to a <ftp.mpik-tueb.mpg.de/pub/papers/hhb/IntrGoldBulEde91.ps.Z>

[Persistence in the Object-Oriented Database Programming.. - Volker Turau \(1992\) \(Correct\) \(3 citations\)](#)

CA 94704, USA e-mail: klas@ICSI.Berkeley.EDU **Abstract** In this paper the principles of handling and operations manipulating the extension of a **class**. After defining the above mentioned concepts an <ftp.icsi.berkeley.edu/pub/techreports/1992/tr-92-045.ps.gz>

[Randomized Non-Linear Projections Uncover High-Dimensional.. - Cowen, Priebe \(1997\) \(Correct\) \(4 citations\)](#)

polya.mts.jhu.edu/~cowen/advances.ps

[Bus Relief Point Selection using Constraint Programming - Layfield, Smith, Wren \(1998\) \(Correct\)](#)

2 Scheduling and Constraint Management Group **Abstract** In planning urban bus operations, scheduling shifts that will form the **driver** schedule. ILP **methods** are often based on a set covering model 3 In planning urban bus operations, scheduling the **drivers** is the next stage after allocating buses to the agora.leeds.ac.uk/scs/doc/reports/1998/98_22.ps.Z

[Teaching a Research-Oriented Visualization Course - David Banks \(Correct\)](#)

banks@cs.msstate.edu www.cs.msstate.edu **ABSTRACT** This paper describes how a one-semester animations, and interactive systems) that the **class** projects will produce. As the 1994 report tombigbee.cs.msstate.edu/viz/research/papers/teaching.research.ps.gz

[Indexing for Data Models with Constraints and Classes - Kanellakis, Ramaswamy.. \(1993\) \(Correct\) \(80 citations\)](#)

Models with Constraints and **Classes** Extended **Abstract**) Paris C. Kanellakis y Sridhar Ramaswamy z Indexing for Data Models with Constraints and **Classes** Paris C. Kanellakis Sridhar Ramaswamy Darren of points and remain efficient. The bounds and **methodology** are given by the following theorem: <ftp.cs.brown.edu/pub/techreports/93/cs93-21.ps.Z>

[Symbolic Composition - Correnson, Duris, Parigot, Roussel \(1998\) \(Correct\) \(1 citation\)](#)

France. E-mail: Gilles.Roussel@univ-mlv.fr **Abstract** To be modular, functional programming widely But we were also convinced that, at least for a **class** of programs, descriptive composition was more efficient functional programming deforestation **method**. For this purpose, a translation from functional pauillac.inria.fr/cdrom/ftp/fnc2/publications/SC97.ps.gz

[Performance Optimization of VLSI Interconnect Layout - Cong, He, Koh, Madden \(1996\) \(Correct\) \(27 citations\)](#)

University of California, Los Angeles, CA 90095 **Abstract** This paper presents a comprehensive survey of and interconnect optimization process. Then, we **classify** the existing work on optimization of VLSI dynamo.ecn.purdue.edu/~chengkoh/papers/integration/main.ps.Z

[Unsupervised Learning of Spatial Regularities - Ketterlin, Blamont, Korczak \(1995\) \(Correct\)](#)

Ren'e Descartes, F-67084 Strasbourg Cedex, France **ABSTRACT** This paper examines the task of remote-sensing the spectral values of each pixel in an image, **classes** can be formed. These **classes** represent specific

Ketterlin, Blamont & Korczak Many segmentation **methods** ignore spatial information. 11 These **methods** dpt-info.u-strasbg.fr/pub/recherche/IA/srs-95.ps.gz

A General NP-Completeness Theorem - Megiddo (1993) (Correct) (5 citations)
Theorem Nimrod Megiddo Revised) **Abstract**. A detailed model of a random access computation it assigns it to c(0)otherwise, HALT. 1 The **class** NP will be defined more precisely later. iv)
www.math.tau.ac.il/~megiddo/.psfiles/smalecop.ps.gz

Systems Level Specification and Modelling of Reactive Systems.. - Glässer (1995) (Correct)
Paderborn, Germany glaesser@uni-paderborn.de **Abstract**. As part of a comprehensive design concept for communication, and control systems this **class**, in particular, does also include various kinds and Modelling of Reactive Systems: Concepts, **Methods**, and Tools Uwe Glasser Heinz Nixdorf
www.uni-paderborn.de/sfb376/projects/b1/PS/Gla96.ps.gz

Practical Issues Of 2-D Parallel Finite Element Analysis - Michelle Hribar (Correct)
Email: michelle@eecs.nwu.edu, taylor@eecs.nwu.edu **Abstract**-The use of parallel processors has made it smaller domains called elements. Consequently, this **class** of problems parallelizes very well all the steps of the machine, and how the optimal communication **method** changes as a fixed size problem is scaled to a
ece.nwu.edu/pub/CELERO/picpp94.ps.gz

Nonsmooth Analysis, Convex Analysis, and their Applications to.. - Choset (1997) (Correct)
University Scaife Hall Pittsburgh, PA 15213 **ABSTRACT** Nonsmooth analysis of a broad **class** of functions PA 15213 **ABSTRACT** Nonsmooth analysis of a broad **class** of functions taking the form $F(x) = \min_i f_i(x)$ are potential field approaches and roadmap **methods** 2 In the potential field approach 210
voronoi.sbp.ri.cmu.edu/~choset/papers/ijcga97.ps.gz

The Scientific Status of Artificial Life - Jason Noble (1997) (Correct) (3 citations)
Brighton BN1 9QH, U.K. jasonn@cogs.susx.ac.uk **Abstract** The field of artificial life is questioned on address some question in biology, there is another **class** of work that takes inspiration from biology to scientific status, its object of study, and its **methodological** standards the concepts "artificial life"
ftp.cogs.susx.ac.uk/pub/ecal97/online/F102.ps.gz

Modified Maurer-Yacobi's scheme and its applications - Lim, Lee (1993) (Correct)
and Technology (POSTECH)Pohang, 790-784, KOREA **Abstract** In Eurocrypt'91, Maurer and Yacobi developed a In Eurocrypt'91, Maurer and Yacobi developed a **method** for building a trapdoor into the one-way function
wooly.postech.ac.kr/library/papers/chlim/publications/aus92.ps

Metastates In The Hopfield Model In The Replica Symmetric Regime - Bovier, Gayrard (1998) (Correct) (3 citations)
Case 907 F-13288 Marseille Cedex 9, France **Abstract**: We study the finite dimensional marginals of symmetry, Brascamp-Lieb inequalities AMS Subject **Classification**: 82B44, 60K35, 82C32 #Work partially something ought to be understood better in this **method**. An apparently less mysterious approach that
mpej.unj.ch/mp_arc/html/mp_arc/c/97/97-326.ps.gz

A Hybrid Block GMRES Method For Nonsymmetric Systems With ... - Simoncini, Gallopoulos (1996) (Correct) (4 citations)
Sides V. Simoncini And E. Gallopoulos Y **Abstract**. The Block Gmres (bgmres) **Method** Is A Natural with multiple right-hand sides. AMS subject **classification**. 65F10. 1. Introduction. One natural Appl. Math.66, 1996. A hybrid block GMRES **method** for nonsymmetric systems with multiple right-hand
ftp.csr.d.uiuc.edu/pub/CSR_D_Reports/reports/1378.ps.gz

Explicit Polymorphism and CPS Conversion - Harper, Lillibridge (1993) (Correct) (38 citations)
functional programming, polymorphism **Abstract** We study the typing properties of CPS for an extension of F_! with control operators. Two **classes** of evaluation strategies are considered, each of control are elegantly addressed using the **method** of continuations. The semantics of control
www.cs.cmu.edu/People/rwh/papers/cps-fomega/tr.ps

Subcritical Superstrings - Siegel Institute (Correct)
of New York, Stony Brook, NY 11794-3840 **ABSTRACT** We introduce the Liouville mode into the charges, there is no symmetry. However, the second-**class** constraints (and corresponding Wess-Zumino term) for physical dimensions by the usual Liouville **methods**, unlike the bosonic string (for which the preprints.cern.ch/archive/electronic/hep-th/9503/9503173.ps.gz

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